

Name: ETICAM, Inc.

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Facility Name: ETICAM, Inc.
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Date: September 23, 1988

Time: approximately 4:00 AM to 7:05 AM

Type of Incident: Spill of effluent water and wash water from
crystallizer.

Injuries: None

Potential Hazard: Potential of ground contamination. Analysis
indicates that there was little or no impact
to the environment.

Incident Summary: 7:05 AM on Friday September 23, 1988 a spill
of water at the crystallizer, a non-hazardous
waste area, was found by Jon Martin,
assistant operator. The valve to the fresh
water line at the crystallizer was slightly
open which allowed the water to fill the
crystallizer and containment area to excess
capacity, which overflowed to the ground.

The excess water was pumped back into a
holding vessel that was circulated back to
the crystallizer. Spillage water was
estimated to be approximately 200 gallons.
Approximately 25 % of the water was recovered
by 12:00 PM September 23, 1988.

ETICAM, Inc.

Spill September 23, 1988

September 30, 1988

Incident Summary:

Notification of spill was placed at 8:50 AM on September 23, 1988 to Mr. John West of Nevada Department of Environmental Protection, by Byron B. Bradd, General Manager. The Lyon County Emergency Manager, Mr Marvin Carr was not available. Mr. Marty Jensen, North Lyon County Fire Chief was notified at 9:00 AM of the incident for Marvin Carr. Marty Jensen made a site visit at approximately 9:30 AM.

At that time soil samples from three locations were taken at six (6) inch depths within the spill area. One set of samples was retained by Marty Jensen and one set of by ETICAM for analysis (see attached results).

Corrective Measures:

Operators have been instructed to the cause of the incident, and preventive measures which should be followed.

High level sump alarm will be installed alarms will be installed by October 31, 1988 which will alert operators. Additionally it will be connected to central alarm system.

Sample ID: #1
Sample Location: Southeast corner
of contaminated area.
Matrix: Soil

Date Sampled: 09/23/88
Date Extracted: 09/26-27/88
Date Analyzed: 09/28/88

Method: EP TOX Extraction, EPA protocol
Metals 6000 Inductively Coupled Plasma

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METALS:

	mg/L
Arsenic *	<1.00
Barium	<0.20
Cadmium	<0.10
Chromium	<0.50
Lead	<0.50
Mercury *	<1.00
Selenium *	<1.00
Silver	<0.50
Sodium	81.48
Calcium	66.70
Potassium	7.99
Magnesium	8.20

Mercury, Arsenic, and Selenium analyzed by ICP, conformation performed with the graphic capabilities of the instrument.

Sample Id: #2
Sample Location: Southeast corner
of contaminated area.
Matrix: Soil

Date Sampled: 09/23/88
Date Extracted: 09/26-27/88
Date Analyzed: 09/28/88

Method: EP TOX Extraction, EPA protocol
Metals 6000 Inductively Coupled Plasma

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METALS:

mg/L

Arsenic *	<1.00
Barium	<0.20
Cadmium	<0.10
Chromium	<0.50
Lead	<0.50
Mercury *	<1.00
Selenium *	<1.00
Silver	<0.50
Sodium	90.51
Calcium	41.70
Potassium	20.30
Magnesium	8.50

* Arsenic, Mercury, Selenium analyzed by ICP, conformation performed
with ICP graphic capabilities.

Sample Id: #3
Sample Location: Southeast corner
of contaminated area.
Matrix: Soil

Date Sampled: 09/23/88
Date Extracted: 09/26-27/88
Date Analyzed: 09/28/88

Method: EP TOX Extraction, EPA protocol
Metals 6000 Inductively Coupled Plasma

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METALS:

mg/L

Arsenic *	<1.00
Barium	<0.20
Cadmium	<0.10
Chromium	<0.50
Lead	<0.50
Mercury *	<1.00
Selenium *	<1.00
Silver	<0.50

Sodium	81.83
Calcium	26.52
Potassium	10.04
Magnesium	10.32

*Arsenic, Mercury, Selenium analyzed by ICP, conformation performed
with graphic capabilities of the instrument.

Sample Id: S. Water
Sample Location: Southeast corner
of contaminated area.
Matrix: Water

Date Sampled: 09/23/88
Date Extracted: 09/23/88
Date Analyzed: 09/23/88

Method: EPA 3050, Metals EPA 6000, Inductively Coupled Plasma
SWMM Sulfates 426C, Chlorides 407B

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METALS:

	mg/L
Arsenic *	<1.00
Barium	<0.20
Cadmium	<0.10
Chromium	1.12
Lead	<0.50
Mercury *	<1.00
Selenium *	<1.00
Silver	<0.50
Sodium	11,435
Calcium	176.20
Potassium	3430
Magnesium	35.40
Sulfates	12,625
Chlorides	15,420

* Arsenic, Mercury, and Selenium analyzed by ICP, conformation performed with graphic capabilities of the instrument.

Sample Id: C.Pad
Sample Location: Southeast corner
within containment area.
Matrix: Water

Date Sampled: 09/23/88
Date Extracted: 09/23/88
Date Analyzed: 09/23/88

Method: EPA 3050, Metals EPA 6000, Inductively Coupled Plasma
SWWM Sulfates 426C, Chlorides 407B

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METALS:

mg/L

Arsenic *	<1.00
Barium	<0.20
Cadmium	<0.10
Chromium	1.36
Lead	<0.50
Mercury *	<1.00
Selenium *	<1.00
Silver	<0.50

Sodium	7,419
Calcium	93.60
Potassium	2460
Magnesium	33.60

Sulfates	9,667
Chlorides	13,159

* Arsenic, Mercury, and Selenium analyzed by ICP, conformation performed with graphic capabilities of the instrument.